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| Form PTO-1390<br><br>U.S. DEPARTMENT OF COMMERCE<br>PATENT AND TRADEMARK OFFICE<br><br>TRANSMITTAL LETTER TO THE UNITED STATES<br>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br>CONCERNING A FILING UNDER 35 U.S.C. 371   |   | ATTORNEY'S DOCKET NUMBER: P30430<br><br>U.S. APPLICATION NO. (If known, see 37 CFR 1.5):<br><b>10/589985</b><br>CONFIRMATION NUMBER: |
| INTERNATIONAL APPLICATION NO.<br>PCT/EP2005/002023  | INTERNATIONAL FILING DATE<br>25 February 2005 | PRIORITY DATE CLAIMED<br>26 February 2004  |
| TITLE OF INVENTION<br>AMPHIPHILIC NANOPARTICLES   |   |  |
| APPLICANT(S) FOR DO/EO/US<br>Ertugrul ARPAC, Helmut SCHMIDT, and Murat AKARSU   |   |  |
| <p>Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information.</p> <ol style="list-style-type: none"> <li>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.</li> <li>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.</li> <li>3. <input type="checkbox"/> This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (23) indicated below.</li> <li>4. <input type="checkbox"/> The US has been elected (PCT Article 31).</li> <li>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ol> </li> <li>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).             <ol style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154 (d) (4).</li> </ol> </li> <li>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))             <ol style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input type="checkbox"/> have not been made and will not be made.</li> </ol> </li> <li>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</li> <li>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).<br/>                 "Unexecuted"</li> <li>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</li> </ol> <p><b>Items 11 to 22 below concern other document(s) or information included:</b></p> <ol style="list-style-type: none"> <li>11. Assignee: <u>LEIBNIZ-INSTITUT FUER NEUE MATERIALIEN GEMEINNUETZIGE GMBH, of Saarbruecken, Germany</u></li> <li>12. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</li> <li>13. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</li> <li>14. <input checked="" type="checkbox"/> A FIRST preliminary amendment.<br/>                 <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.</li> <li>15. <input type="checkbox"/> An Application Data Sheet under 37 C.F.R. 1.76.</li> <li>16. <input type="checkbox"/> A substitute specification.</li> <li>17. <input type="checkbox"/> A power of attorney and/or change of address letter.</li> <li>18. <input type="checkbox"/> Figure of Drawing to be published:</li> <li>19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.</li> <li>20. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154 (d) (4).</li> <li>21. <input type="checkbox"/> A second copy of the English language translation of the international of the international application under 35 U.S.C. 154 (d) (4).</li> <li>22. <input checked="" type="checkbox"/> Other items or information:<br/>                 Cover Letter under 35 U.S.C. 371 and 37 C.F.R. 1.495.<br/>                 International Application as published in German.<br/>                 PCT/IB/304.<br/>                 PCT/IB/308.<br/>                 Claim of Priority.</li> </ol> |   |  |

| U.S. APPLICATION NO. (If known, see 37 CFR 1.5)  |              | INTERNATIONAL APPLICATION NO.   |            | ATTORNEY'S DOCKET NUMBER                  |              |
|--|--------------|---|------------|---|--------------|
| 10/589985  |              | PCT/EP2005/002023   |            | P30430                                    |              |
| <b>23</b> <input checked="" type="checkbox"/> The following fees are submitted:<br>Basic national fee.....300.00   |              |   |            | CALCULATIONS                              | PTO USE ONLY |
|  |              |   |            | \$ 300.00                                 |              |
| <b>24</b> <input checked="" type="checkbox"/> Examination Fee<br>If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33 (1)-(4).....0.00<br>All other situations.....200.00   |              |   |            | \$ 200.00                                 |              |
| <b>25</b> <input checked="" type="checkbox"/> Search fee<br>Search fee (37 CFR 1.445(a) (2)) has been paid on the international application to the USPTO as an International Searching Authority.....0.00<br>International Search Report prepared and provided to the Office.....400.00<br>All other situations.....500.00 |              |   |            | \$ 500.00                                 |              |
| TOTAL 23, 24 and 25 =  |              |   |            | \$1000.00                                 |              |
| <input type="checkbox"/> Additional Fee for Specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in electronic medium). The fee is \$250.00 for each additional 50 sheets of paper or fraction thereof.   |              |   |            |   |              |
| Total Sheets   | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE       |   |              |
| -100=  | /50 =        |   | x \$250.00 | \$ 0.00                                   |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).   |              |   |            | \$ 0.00                                   |              |
| Claims   | Number Filed | Number Extra  | Rate       |   |              |
| Total Claims   | 31 - 20 =    | 11  | x \$50.00  | \$ 550.00                                 |              |
| Independent Claims   | 2 - 3 =      | 0   | x \$200.00 | \$ 0.00                                   |              |
| Multiple Dependent Claim(s) (if applicable)  |              |   | + \$360.00 | \$ 0.00                                   |              |
| TOTAL OF ABOVE CALCULATIONS =  |              |   |            | \$1550.00                                 |              |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.  |              |   |            | \$ 775.00                                 |              |
| SUBTOTAL =   |              |   |            | \$ 775.00                                 |              |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492 (i)).   |              |   |            | \$ 0.00                                   |              |
| Extension of Time fee in the amount of \$  |              |   |            | \$ 0.00                                   |              |
| TOTAL NATIONAL FEE =   |              |   |            | \$ 775.00                                 |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   |              |   |            | \$ 0.00                                   |              |
| TOTAL FEES ENCLOSED =  |              |   |            | \$ 775.00                                 |              |
|  |              |   |            | Amount to be refunded                     | \$           |
|  |              |   |            | Charged                                   | \$           |
| a. <input checked="" type="checkbox"/> A check in the amount of \$775.00 to cover the above fees is included.  |              |   |            |   |              |
| b. <input type="checkbox"/> Please charge my Deposit Account No. _____ in the amount of \$_____ to cover the above fees.   |              |   |            |   |              |
| c. <input checked="" type="checkbox"/> The U.S. Patent and Trademark Office is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 19-0089.  |              |   |            |   |              |
| d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.   |              |   |            |   |              |
| <b>NOTE:</b> Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.   |              |   |            |   |              |
| SEND ALL CORRESPONDENCE TO CUSTOMER NO. 07055<br>AT THE PRESENT ADDRESS OF:  |              |   |            |   |              |
| Neil F. Greenblum<br>GREENBLUM & BERNSTEIN, P.L.C.<br>1950 Roland Clark Place<br>Reston, VA 20191<br>(703) 716-1191  |              |   |            | Heribert F. Muensterer<br>Reg. No. 50,417 |              |
|  |              |   |            | SIGNATURE                                 |              |
|  |              |   |            | NAME                                      |              |
|  |              |   |            | 28,394                                    |              |
|  |              |   |            | REGISTRATION NUMBER                       |              |

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ertugrul ARPAC et al.

Mail Stop PCT

Appl. No. : Not Yet Assigned (U.S. National Phase of PCT/EP2005/002023)

I.A. Filed : February 25, 2005

For : AMPHIPHILIC NANOPARTICLES

**COVER LETTER ACCOMPANYING U.S. NATIONAL STAGE PATENT  
APPLICATION FILED UNDER 35 U.S.C. 371 AND 37 C.F.R. 1.495**

**Mail Stop PCT**

Commissioner for Patents  
U.S. Patent and Trademark Office  
Customer Service Window, Mail Stop PCT  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Enclosed is a new National Stage patent application for filing in the U.S. Patent and Trademark Office under 35 U.S.C. 371 and 37 C.F.R. 1.495. The Declaration and Power of Attorney attached thereto are in unexecuted form. A properly executed Declaration and Power of Attorney will be filed within the period of time set in a Notification to be mailed by the United States Patent and Trademark Office.

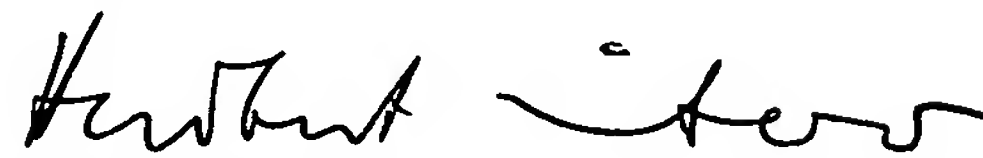
Related to the above, this application should be associated with Customer Number 07055, which includes the present correspondence address as follows:

GREENBLUM & BERNSTEIN, P.L.C.  
1950 Roland Clarke Place  
Reston, VA 20191

P30430.P02

If there are any questions pertaining to this National Stage Application, please contact the undersigned.

Respectfully submitted,  
Ertugrul ARPAC et al.



Neil F. Greenblum  
Reg. No. 28,394

August 15, 2006  
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